# *Iowa Army Ammunition Plant (IAAAP) Command Brief*

## Industry Site Visit

## 17-18 November 2006

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# Agenda

- ✓ Mission
- ✓ Facility
- ✓ Product Lines
- ✓ BRAC
- ✓ Continuous Improvement
- ✓ Safety
- ✓ Armament Retooling Manufacturing Support (ARMS)
- ✓ Natural Resources
- ✓ Installation Restoration Program
- ✓ Facility Reduction Program
- ✓ Accomplishments
- ✓ Tour Safety

# Iowa Army Ammunition Plant

**Commander**

- **Operations Division** — P: Assure compliance of contracts, use of government owned resources, quality, appropriate ammunition handling, storage, and transportation.
- **Installation Management** — P: Monitor, track and coordinate remediation efforts for contamination as a byproduct of plant operations.
- **Installation Stewardship** — P: Ensure safe and secure operating environment; manage the plants assets; stewards for the government.
- **American Ordnance** — P: Operating contractor for the facility.

***Mission:***

- ***To produce and deliver quality large caliber ammunition items for the department of defense using modern production methods in support of worldwide operations.***
- ***Maintain stewardship of government facilities and the environment.***

***Goals:***

- ***Provide better products to the joint forces faster***
- ***Continue modernization efforts to ensure IAAAP sustains a capable industrial facility well into the future***
- ***Continue remediation activities to restore environmental clean up sites back***

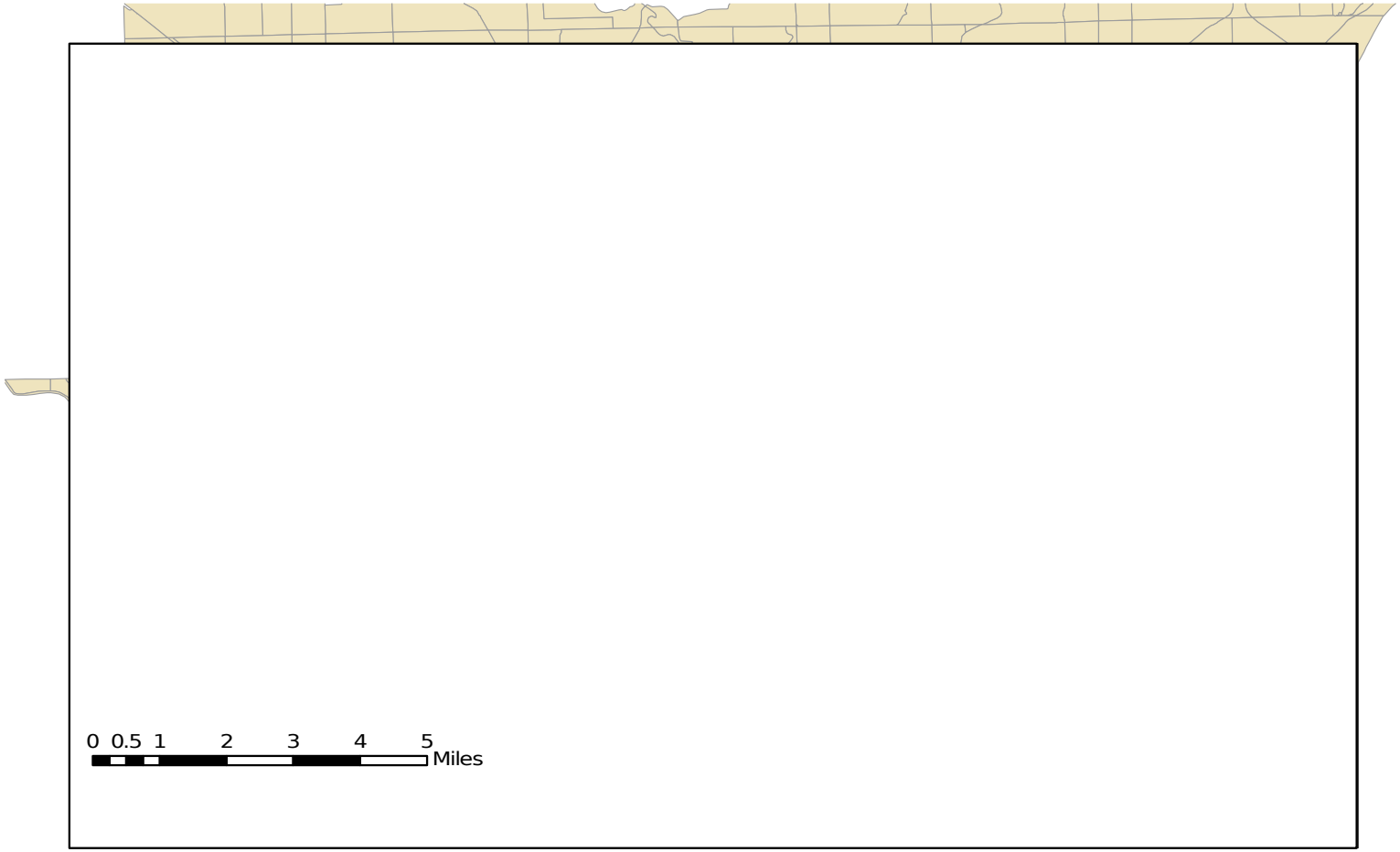
**SUPERIOR SUPPORT TO JOINT FORCES**

# Facility
## Facts

- ✓19,011 acres
- ✓11 load lines
- ✓8 ammunition storage areas
- ✓142 miles of interior road

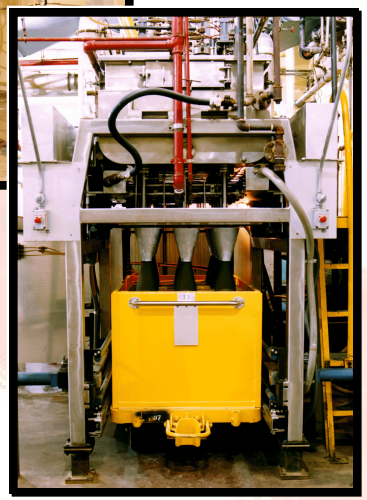
- ✓102 miles of railroad
- ✓30 miles of steam distribution
- ✓10 miles to the regional airport
- ✓10 miles to the Mississippi River

# Facility



# Facility
## Capabilities

- ✓Load, Assemble, and Pack Operations
- ✓High Explosive Pressing Technology
- ✓Melt Pour Operations
- ✓Demilitarization
- ✓Metrology Laboratory
- ✓Chemistry Laboratory
- ✓Engineering Expertise
- ✓Engineering Test Development
- ✓Test Fire Facilities
- ✓Hydrostatic Pressing up to (26”



# Product Lines

## AO Business Units

**INDIRECT FIRE**

155mm M795
155mm M107
120 mm Mortar
Reactive Armor Stryker
Stinger
M549A1
EFSS
Excalibur

**DIRECT FIRE**

120mm Family
*Practice* M865,
M831A1,
M1002
*Tactical* M830A1,
M1028,
KEWA1, KEWA2
105mm M1040
DU Recapitalization
75mm & 105mm
Blanks
Sidewinder
Javelin K-Charge
Canister

**DEVELOPMENT /WARHEADS**

SOCOM X Charges
SOCOM Linear Whds
ARDEC Development Whds
GD-OTS Compact Whd
LLNL Phoenix
DET Torpedo Whds

# Product Lines
## Customers

**JMC**
- 155mm, M107
- 75mm, M337A2
- 105mm, M395
- DU Recapitilization
- Stinger

**ATK, GD-OTS**
- 120mm Tank
- 105mm tank
- Warheads

**PM CAS (Picatinny)**
- MACS, 155mm
- 155mm M795
- Warheads

**DOE**
- Phoenix Cylinders
- Hemis

**GD-OTS**
- EFSS
- Excalibur

**Ensign-Bickford Co**
- Sidewinder

**JJV/GD-OTS**
- Javelin K- Charge

**Madison Research**
- HAWK

**Aerojet/Raytheon**
- TOW 2A Tip Charge Assy

**ATK**
- 105mm, M927

**GDLS-C/BAE**
- Reactive Armor

**SOCOM**
- Linear Whds
- X charges

# BRAC

## Description

Gains production of detonators/relays from LSAAP

Gains 105/155mm HE and Missile Warhead functions from KSAAP

Armed Forces Reserve Center

## Iowa Location

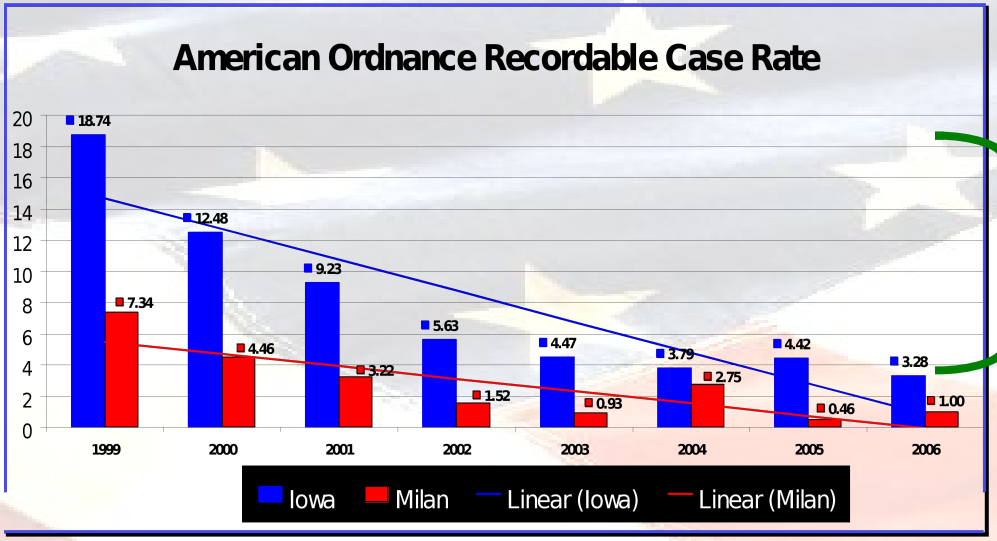
Line 4A – formally the ICI airbag detonator line

Lines 3, 3A, & 4B- Line 3 will be utilized for 105mm and any cast cure explosive loading. Warheads done at line 4B; 155mm at line 3A.

Transfer of 26 acres of land on northern border for construction.

- ✓ Currently forming IPTs to coordinate BRAC efforts through JMC, AMC, PEO Ammo and IAAAP.
- ✓ Plan is to modernize along with “right sizing” infrastructure to ensure capability to meet future support requirements.

# Safety




- ✓ AO instituted “Behavior Based” Safety Program
- ✓ Everyone responsible for safe conduct
- ✓ Rewards based upon performance (days off)
- ✓ Reduction of 533% from 1999 to present

- ✓ Upgraded fire alarm and central reporting system for production areas (Phase 1 Completed)
- ✓ All firefighters certified to IS-00700 Fire Service Management System (NIMS) standards
- ✓ Replaced old fire truck with newer year model, increased reliability of system
- ✓ Acquired new HAZMAT trailer that provides rapid response for on plant HAZMAT emergencies
- ✓ Received new ambulance in April 2006

# Armament Retooling Manufacturing Support (ARMS)

- In 2005 ARMS tenant revenues totaled $1.7 million. Recent projects funded by ARMS revenues
  - Upgrades to the flexible manufacturing line for insensitive munitions
  - Replacement of powerhouse controls on one boiler
  - Shelters for security guards at two guard posts
  - Workforce quality of life improvements
  - Road and roof upgrades

- Goal is to attract companies that are compatible with our munitions production mission.
  - Energetics - production or storage
  - Warehousing and distribution
  - Manufacturing
- Eleven (11) current facility tenants
  - Government (2)
  - Commercial (6)
  - Plant Support (3)
- Projected 2006 ARMS revenues $746K
  - Rental Income
  - In-kind services
  - Plant Support

# Armament Retooling Manufacturing Support (ARMS)

**Current facility tenants**

- Advanced Environmental Technology (AET)
- East Camden & Highland Railroad (EACH)
- United States Army Corps of Engineers (USACE)
- MKM (ER,A support)
- Iowa Army National Guard
- Corporate Medical Services (CMS)
- RESCAR Industries (railcar repair)
- General Dynamics (OTS)
- Allworth Contracting Inc.
- L3 Communications
- Beach & Enke Trucking

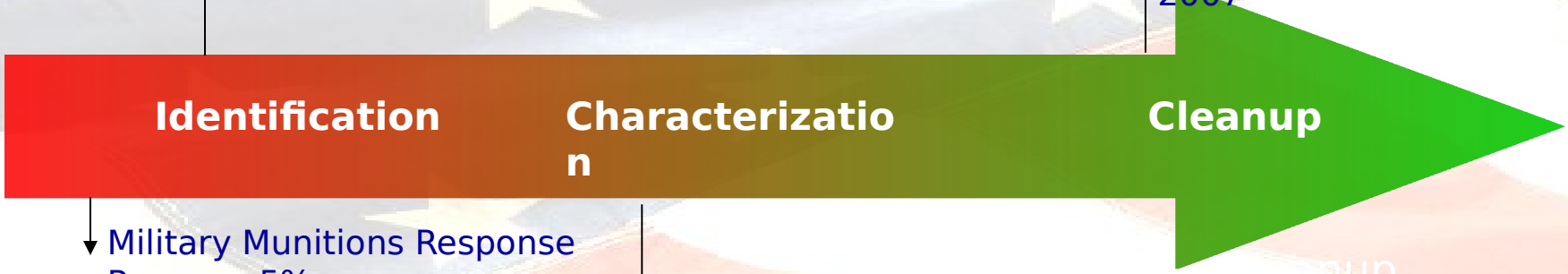
# Natural Resources Program

- ✓ **Agricultural Program covers 7,107 acres and generates $600 – $700K in revenue**
  - ~ 23 agricultural tenants annually
  - Row Crop, Hay, Grazing
- ✓ **Agricultural Program spends $450 – 550K annually**
  - Sustain soil quality
  - Consistently generates more revenue than expenditures
- ✓ **Agricultural Program saves the contractor $130K annually in mowing costs.**
  - Grazing program covers ~1500 acres
  - Roadside mowing to provide access to tenant fields

# Environmental Cleanup Programs

Compliance Cleanup 15% Complete 2007
FUSRAP 15% Complete 2012

ER,A Soil 95% Complete 2007




Military Munitions Response Program 5% Complete TBD

ER,A Groundwater 60% Complete 2014

**Military Munitions Response Program**
- ✓ 4 sites with one more in approval stage
- ✓ Contract awarded to complete SI by June 2008

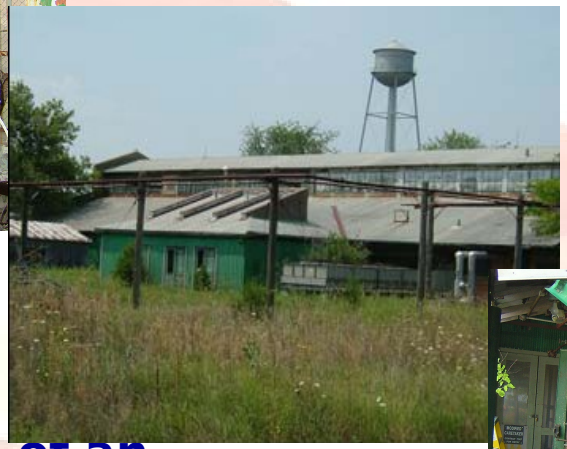
**Compliance Cleanup**
- ✓5 sites
- ✓Investigation started in 2006

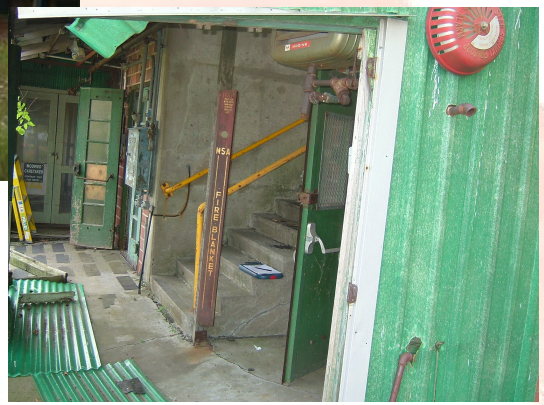
**FUSRAP**
- ✓Began in 2002
- ✓Investigation underway for 7 sites

**Environmental Restoration, Army (ER, A)**
- ✓ Investigations started in 1990
- ✓ 10 of 52 Soil Sites still require cleanup

# Facility Reduction Program

➢**Supporting ACSIM reduction program and making way for new construction**





- ✓ 1 line removed to date
- ✓ 27 buildings / 38,455 sq. ft. removed
- ✓ 6 lines scheduled for removal
- ✓ 222 buildings / 327,251 sq. ft. planned
- ✓ 3 small buildings to be removed this CY

- ✓ $1.9M spent to date
- ✓ $10.1M remaining
- ✓ First active plant to dispose of an entire outdated production line
- ✓ Beneficial reuse of concrete debris- 1500 tons for Mathes lake Jetty

# Tour Safety

- ✓No cell phones, pagers or PDAs in operating buildings
- ✓No camera’s or flash producing devices
- ✓No flame producing items
- ✓Do not handle product
- ✓Personnel & Explosive Limits
- ✓Evacuation Procedures
- ✓Safety glasses required in all operational areas
- ✓Seat belts required by all vehicle occupants

# Questions

- ✓ **Will only answer questions based upon scripted information in attempt to ensure equal dissemination of data.**
- ✓ **During tour, write questions on 3X5 card (provided) and give to government rep.**
- ✓ **Will answer questions at end of day if possible.**

# Questions?